

Multilayer Feed-Forward Neural Network Approach to Lymphoma Cancer Data

Abstract

Lymphoma is a cancer in the lymphatic cells of the immune system, called lymphocytes. One of the most important organ systems of the human body is the lymphatic or lymphoid system, which is a network of node-like structures located throughout the body. This system helps filter out bacteria and plays an important role in fighting diseases. However, just like any other organ system in the body, it is also exposed to developing cancers. The objective of the current study is to study from the view of MLFF neural network model the most significant factor that influences Hodgkin's lymphoma. The input variables of MLFF neural network model are selected based on the significant variables of logistic regression (LR) model. The view from (MLFF) neural network model showed that two variables which were diffuse large B-Cell lymphoma (DLBCL) and hypertension status (HPT) were most influence of Hodgkin's lymphoma.